

Name: _____

Date: _____

Practice Polynomial Quiz #1

Part One: Naming Polynomials: Write each polynomial in simplified, standard form, then name by degree and by term. Write out the full name (no abbreviations).

1. $4x + x^3 - 3x$

simplified, standard form: _____

name: _____

2. $2 + h - h$

simplified, standard form: _____

name: _____

3. $-2z^2 - 5z + z^4$

simplified, standard form: _____

name: _____

4. $5a^3 - 3a + 1 - 8a^2$

simplified, standard form: _____

name: _____

5. 13

simplified, standard form: _____

name: _____

6. $-8a^2$

simplified, standard form: _____

name: _____

Part Two: Polynomial Operations: Write all answers in simplified, standard form.

7. $(6x^3 + 3x^2 - 2x + 1) - (5x^4 - 2x^2 + x - 1)$	8. $5x(2x^2 - 3x)$
9. $(5a - 2a^2 - 9) + (12 - 8a - 19a^2)$	10. $(y + 3)(y + 8)$
11. $(r - 1)(r - 9)$	12. $(2x + 5)(3x - 8)$

Part Three: Factoring: Factor each polynomial as completely as possible. If factoring is not possible, write *unfactorable*.

13. $4x - 16$	14. $7a^4 - 14a^3 + 21a^2$
15. $12a - 13b$	16. $8a^2b^5 - 4a^2b^3 + 16a^2b^2$